

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
**WO 2005/008858 A1**

(51) International Patent Classification?: **H02H 7/20**

(21) International Application Number:  
PCT/KR2004/001779

(22) International Filing Date: 16 July 2004 (16.07.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:  
10-2003-0048873 16 July 2003 (16.07.2003) KR

(71) Applicant (for all designated States except US): **TYCO ELECTRONICS AMP KOREA LIMITED [KR/KR]**; 1191 Shinsang-3-Ri, Jinryang-Eup, Kyungsan-Si, Kyungsangbuk-Do 712-838 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHOI, Yang-Youn [KR/KR]**; 103-406, Daewoo APT., Dangwang-Dong, An-sung-Si, Kyungki-Do 456-705 (KR). **LEE, Cheol-Seob [KR/KR]**; 262-1502, Seohan APT., Bosung-1-Cha, Shin-mac-Dong Susung-Gu, Taegu-Si 706-783 (KR).

(74) Agent: **L & K PATENT FIRM**; 701, Daekun Bldg., 822-5, Yeoksam-Dong, Kangnam-Gu, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): **AE, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

**Published:**

- with international search report
- with amended claims and statement

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **POWER CONTROLLER FOR VEHICLE**

(57) Abstract: Disclosed is an electric power controller for a vehicle capable of controlling power supplied to vehicle load. The electric power controller for vehicle comprises an overheat detector for detecting whether a power line supplying power from a vehicle battery to vehicle load is overheated, a voltage detector for detecting a voltage of the vehicle battery, a voltage converter for converting power from the vehicle battery into a proper voltage and outputting a switching control signal reflecting the proper voltage, a switching unit for performing ON/OFF switching operations based on the switching control signal to control power from the vehicle battery to the vehicle load, and a controller for inputting an overheat signal from the overheat detector and the voltage from the voltage detector, determining whether there is an abnormal current, and outputting a switching control signal, corresponding to a result to analyze a change of the voltage, to the switching unit.

WO 2005/008858 A1